

## Title (en)

Shell catalyst, process for its preparation and its use

## Title (de)

Schalenkatalysatoren, Verfahren zu ihrer Herstellung und ihre Verwendung

## Title (fr)

Catalyseur en coque, procédé pour le préparer et son utilisation

## Publication

**EP 0715889 A2 19960612 (DE)**

## Application

**EP 95117569 A 19951108**

## Priority

DE 4443701 A 19941208

## Abstract (en)

A shell catalyst (I) contains (A) one or more metals of Gp. VIII and/or IB on (B) a powder or formed support, these metals being in finely divided form within a shell  $\leq 1200$  (pref. not more than 100) nm thick, with crystallite sizes of  $\leq 10$  (pref.  $< 3$ ) nm, in concns. of 0.05-35 wt.% w.r.t. dry wt. of catalyst. Also claimed is (i) a process for the prodn. of (I) by coating the support with aq. solns. of  $\geq 1$  preformed, mono- or bi-metallic colloids of the above catalyst metals, stabilised with strongly hydrophilic surfactants; (ii) an electro-catalyst contg Gp. VIII metal(s) on a conductive support, obtd. by coating the support as above.

## Abstract (de)

Die Erfindung betrifft Schalenkatalysatoren, die auf pulverförmigen oder geformten Trägern ein oder mehrere Metalle aus den Gruppen VIII und IB des Periodensystems enthalten. Die Katalysatoren werden durch Belegen der Träger mit den katalytisch aktiven Metallen in wäßrigen Lösungen von mono- oder bimetalischen Kolloiden dieser Metalle erhalten, wobei die Kolloide durch stark hydrophile Tenside stabilisiert sind.

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**B01J 37/00**

## IPC 8 full level

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## Citation (applicant)

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